

Exhibit 2

READ INSTRUCTIONS CAREFULLY
BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION

APPROVED BY OMB 3060-0589

REMITTANCE ADVICE

(1) LOCKBOX # 358160

PAGE NO. 1 OF 1
FCC/MELLON JUL 24 2001

SPECIAL USE

FCC USE ONLY

SECTION A - PAYER INFORMATION

(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card)

Wiley Rein & Fielding LLP

(3) TOTAL AMOUNT PAID (dollars and cents)

\$ 145.00

(4) STREET ADDRESS LINE NO. 1

1776 K Street, N.W.

(5) STREET ADDRESS LINE NO. 2

(6) CITY

Washington, D.C.

(7) STATE

D.C.

(8) ZIP CODE

20006

(9) DAYTIME TELEPHONE NUMBER (include area code)

202.719.7000

(10) COUNTRY CODE (if not in U.S.A.)

IF PAYER NAME AND THE APPLICANT
IF MORE THAN ONE APPLICANT, I

SECTION B - A

(11) APPLICANT NAME (if paying by credit card, enter name exactly as it appears on your card)

Sirius Satellite Radio Inc.

(12) STREET ADDRESS LINE NO. 1

1221 Avenue of the Americas

(13) STREET ADDRESS LINE NO. 2

36th Floor

(14) CITY

New York

(15) STATE

New York

(16) ZIP CODE

10020

(17) DAYTIME TELEPHONE NUMBER (include area code)

212.584.5100

(18) COUNTRY CODE (if not in U.S.A.)

COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEETS (FORM 159-C)

SECTION C - PAYMENT INFORMATION

(19A) FCC CALL SIGN/OTHER ID

(20A) PAYMENT TYPE CODE (PTC)

C G B

(21A) QUANTITY

1

(22A) FEE DUE FOR (PTC) IN BLOCK 20A

\$ 145.00

FCC USE ONLY

(23A) FCC CODE 1

(24A) FCC CODE 2

(19B) FCC CALL SIGN/OTHER ID

(20B) PAYMENT TYPE CODE (PTC)

(21B) QUANTITY

(22B) FEE DUE FOR (PTC) IN BLOCK 20B

\$

FCC USE ONLY

(23B) FCC CODE 1

(24B) FCC CODE 2

(19C) FCC CALL SIGN/OTHER ID

(20C) PAYMENT TYPE CODE (PTC)

(21C) QUANTITY

(22C) FEE DUE FOR (PTC) IN BLOCK 20C

\$

FCC USE ONLY

(23C) FCC CODE 1

(24C) FCC CODE 2

(19D) FCC CALL SIGN/OTHER ID

(20D) PAYMENT TYPE CODE (PTC)

(21D) QUANTITY

(22D) FEE DUE FOR (PTC) IN BLOCK 20D

\$

FCC USE ONLY

(23D) FCC CODE 1

(24D) FCC CODE 2

SECTION D - TAXPAYER INFORMATION (REQUIRED)

(25)

PAYER TIN

0 5 2 1 2 8 9 9 8 8

(26) COMPLETE THIS BLOCK ONLY IF APPLICANT NAME IN B-11 IS DIFFERENT FROM PAYER NAME IN A-2

APPLICANT TIN

0 5 2 1 7 0 0 2 0 7

SECTION E - CERTIFICATION

(27) CERTIFICATION STATEMENT

I, _____, (PRINT NAME) Certify under penalty of perjury that the foregoing and supporting information are true and correct to the best of my knowledge, information and belief. SIGNATURE _____

SECTION F - CREDIT CARD PAYMENT INFORMATION

(28)

MASTERCARD/VISA ACCOUNT NUMBER:

EXPIRATION DATE:

MONTH YEAR

MONTH YEAR

DATE

MASTERCARD

VISA

I hereby authorize the FCC to charge my VISA or MASTERCARD for the service(s)/authorization(s) herein described.

AUTHORIZED SIGNATURE



Sirius Satellite Radio
1221 Avenue of the Americas
New York, NY 10020
tel 212 584 5100
fax 212 584 5200
www.siriusradio.com

July 24, 2001

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
The Portals
445 12th Street, SW
Washington, DC 20554

**Re: IB Docket No. 95-91: Request for Special Temporary Authority to
Operate Satellite DARS Terrestrial Repeaters**

Dear Ms. Salas:

Sirius Satellite Radio Inc. ("Sirius"), one of the two satellite digital audio radio service ("satellite DARS") licensees in the United States, requests special temporary authority ("STA") pursuant to Section 25.120 of the Federal Communications Commission's ("FCC" or "Commission") Rules¹ to operate terrestrial repeaters in 104 sites in connection with its satellite DARS system. STA is requested for 180 days or until such time as the Commission issues final rules governing the use of satellite DARS terrestrial repeaters.² Grant of Sirius' STA request would serve the public interest by allowing Sirius imminently to initiate uniformly high quality commercial satellite DARS programming nationwide. Attached is a FCC Form 159, with a check payable to the Federal Communications Commission in the amount of \$145.00.³

Sirius seeks STA to use its terrestrial repeater stations to provide signal coverage to areas where its satellite transmissions are blocked or subject to severe multipath interference,

¹ 47 C.F.R. § 25.120

² *Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band*, 12 FCC Rcd 5754, 5810-12 (1997) (Report and Order Memorandum Opinion and Order and Further Notice of Proposed Rulemaking) ("*Terrestrial Repeater NPRM*").

³ Sirius is filing this STA request consistent with the Commission's procedures for blanket U.S. mobile satellite earth stations because the Commission has proposed to authorize operation of satellite DARS terrestrial repeaters using that same authorization process.

particularly in so-called 'urban canyons' between tall buildings. In order to limit the effects of such signal blockage, Sirius, in its initial application, and consistently since that time, has proposed to use terrestrial repeaters to augment space station service in certain locations.⁴ The Commission acknowledged in the grant of Sirius' license that terrestrial repeaters were a key component of the intended service.⁵ Furthermore, the Commission has expressly defined the satellite DARS service to include such terrestrial augmentation.⁶

Sirius has been operating a system of terrestrial repeaters since October 14, 1999 pursuant to its experimental license, call sign WA2XXE.⁷ Sirius expects to continue to employ its experimental license to complete testing of its service nationwide. Sirius has not received any interference complaints as a result of its operation of the repeaters under experimental authority, and now simply seeks to use this nationwide system of repeaters to provide commercial service to its customers.

Attached as Exhibit A is a list of sites in which Sirius seeks to operate terrestrial repeaters pursuant to this STA. Sirius has also included the following information for each of the high power (EIRP between greater than 10 kW and 40 kW) and medium power (EIRP between greater than 2 kW and 10 kW) repeaters it seeks to operate at each of these sites:⁸

(1) geographic coordinates; (2) antenna type; (3) antenna orientation; (4) antenna radiation

⁴ *Petition of Satellite CD Radio, Inc. For Amendment of Section 2.106 And Part 25 Of The Commission's Rules To Establish A Satellite And Terrestrial CD Quality Broadcasting Service*, SAT-LOA-19900518-00037 (May 18, 1990).

⁵ *Satellite CD Radio, Inc., Application for Authority to Construct, Launch, and Operate Two Satellites in the Satellite Digital Audio Radio Service*, 13 FCC Rcd 7971, 7994 (1997) (Order and Authorization), *modified by* 16 FCC Rcd (2001).

⁶ Satellite DARS is defined as "[a] radiocommunication service in which audio programming is digitally transmitted by one or more space stations directly to fixed, mobile, and/or portable stations, and which may involve complementary repeating terrestrial transmitters." 47 C.F.R. § 25.201. *See also Terrestrial Repeater NPRM*, 12 FCC Rcd at 5770 (stating "[i]t has been widely known and discussed in the record that DARS providers will need to rely on terrestrial repeaters and gap fillers").

⁷ *See Experimental Radio Station Construction Permit and License for Satellite CD Radio, Inc.*, Call Sign WA2XXE (File No. 0037-EX-ML-2000) (July 5, 2000); *Satellite CD Radio, Inc., Application to Modify Experimental Authority* (filed June 13, 2000); *Experimental Radio Station Construction Permit and License for Satellite CD Radio, Inc.*, Call Sign WA2XXE (File No. 0252-EX-ML-1999) (Oct. 14, 1999); *Satellite CD Radio, Inc., Application for Experimental Authority* (filed Sept. 21, 1999).

⁸ STA is requested for 151 high and medium power terrestrial repeaters in 104 sites because Sirius employs sector antennas.

pattern vertical downtilt; (5) total EIRP; and (6) height Above Ground Level (AGL).⁹ Attached as Exhibit B are antenna specification sheets for each of the antenna types described in Exhibit A.

Grant of Sirius' request for STA would clearly serve the public interest. STA would allow Sirius to incorporate terrestrial repeaters in its initial commercial rollout thus ensuring there would be no further delay in nationwide deployment, and no reduction in the quality of service. Grant of the STA would allow the public to take advantage of long-awaited satellite DARS service, offering both an increase in listening choices and greatly improved digital quality sound.

As the Commission is well aware, one decade has passed since Sirius filed its initial application to construct, launch, and operate a satellite DARS system. Sirius has successfully launched all of its satellites, and now holds all the FCC authorizations currently required to provide satellite DARS programming to the public. However, the FCC has not yet issued final rules governing operation of our terrestrial repeaters.

Sirius has established that its terrestrial repeaters will not cause harmful interference to other radio services.¹⁰ Nevertheless, Sirius will immediately cease operations of a repeater operating pursuant to STA upon notification of interference to a lawfully operated radiocommunication station. Sirius' repeaters also will not (1) originate any original programming, (2) transmit signals other than those used by its satellites or (3) extend satellite DARS coverage outside of the satellites' authorized service area.¹¹ Sirius certifies that the out-of-band emissions of these terrestrial repeaters will be attenuated below the transmitted EIRP by no less than $75 + 10 \log (P)$.

In accordance with Part 17 of the Commission's Rules, Sirius has or will notify the Federal Aviation Administration ("FAA") of antenna structures for which such notification is required. 47 C.F.R. § § 17.7-17.17. Sirius hereby certifies that operation of these repeaters will not have a significant environmental effect, as defined by 47 C.F.R. § § 1.1301-1.1319, and that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862(a).


⁹ Sirius has not included this information for the low power repeaters (*i.e.*, EIRP of 2 kW or less) it seeks to operate pursuant to this STA.

¹⁰ *In the Matter of Establishment of Rules and Policies for the Digital Audio Radio Service in 2310-2360 MHz Frequency Band, Supplemental Comments of Sirius Satellite Radio* (Jan. 18, 2000).

¹¹ *Terrestrial Repeater NPRM*, 12 FCC Rcd at 5845-46 (Appendix C).

If there are any questions concerning this request, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert D. Briskman".

Robert D. Briskman
Technical Executive
Sirius Satellite Radio Inc.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing **Request for Special Temporary Authority to Operate Satellite DARS Terrestrial Repeaters** was delivered via hand-delivery, on this 24th day of July, 2001 to each of the following:

Donald Abelson
International Bureau
Federal Communications Commission
445 Twelfth Street, S.W. Room 6-C750
Washington, DC 20554

Ron Repasi
International Bureau
Federal Communications Commission
445 Twelfth Street, S.W., Room 6-A505
Washington, DC 20554

Chris Murphy
International Bureau
Federal Communications Commission
445 Twelfth Street, S.W., Room 6-C437
Washington, DC 20554

Jennifer Gilsenan
International Bureau
Federal Communications Commission
445 Twelfth Street, S.W., Room 6-A520
Washington, DC 20554



Claudia L. Cartagena

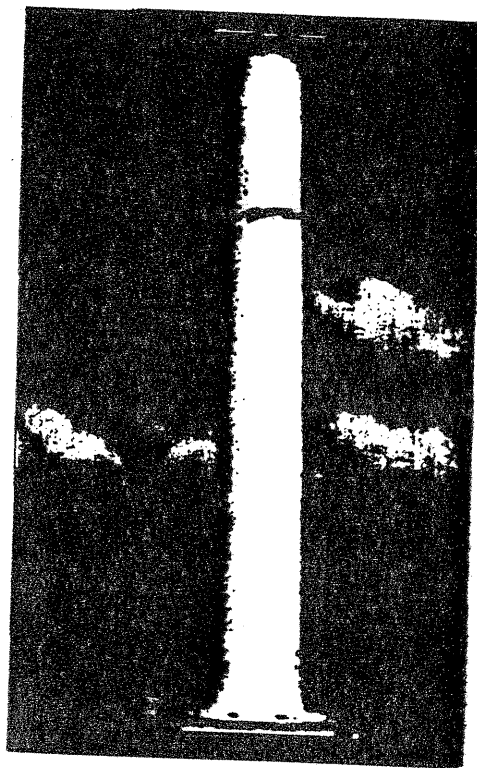
EXHIBIT A

Market	No Of Sectors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Down tilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Down tilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Down tilt	EIRP (Watts)	Longitude (W)	Latitude (N)	
Alton	1	HMD8V90-R05-H	90	320	0	14125.38	-	-	-	-	-	-	-	-	81.30.14.00	41.03.53.00	150
Altamir	1	HMD8V360-R05-H	Omni	-	-	85.11.38	-	-	-	-	-	-	-	-	73.45.55.80	42.39.32.18	178
Altamir	1	HMD8V90-R05-H	90	230	0	22387.21	-	-	-	-	-	-	-	-	106.26.58.50	35.12.46.50	65
Altamir	2	HMD8PV180-R05-H	180	0	0	6309.57	180	180	0	7043.28	-	-	-	-	84.23.13.10	33.45.39.46	1016
Altamir	1	HMD8V120-R05-H	120	250	0	19652.62	-	-	-	-	-	-	-	-	84.20.07.00	33.55.16.00	443
Altamir	2	HMD8V90-R05-H	90	30	0	8317.64	90	150	0	7585.78	-	-	-	-	84.28.25.08	33.53.59.70	228
Altamir	2	HMD8PV180-R05-H	90	45	0	10716.19	90	180	0	10964.78	-	-	-	-	84.22.39.00	33.51.07.00	231
Altamir	2	HMD8PV180-R05-H	180	0	0	7585.78	180	180	0	7413.10	-	-	-	-	84.23.25.80	33.47.54.60	154
Austin	1	HMD8V120-R05-H	120	175	0	12589.25	-	-	-	-	-	-	-	-	97.44.29.00	30.17.00.00	292
Baltimore	1	HMD8PV180-R05-H	180	0	0	8332.54	-	-	-	-	-	-	-	-	70.36.50.12	39.17.15.41	526
Birmingham	1	HMD8V360-R05-H	Omni	-	-	8241.38	-	-	-	-	-	-	-	-	86.48.30.00	33.31.04.00	537
Boston	1	HMD8V360-R05-H	Omni	-	-	7943.28	-	-	-	-	-	-	-	-	71.03.41.2	42.21.30.60	554
Buffalo	1	HMD8V90-R05-H	90	30	0	8332.64	-	-	-	-	-	-	-	-	78.62.35.00	42.52.47.00	580
Charlotte	1	HMD8PV180-R05-H	180	65	0	10471.29	-	-	-	-	-	-	-	-	80.50.49.74	35.13.29.49	524
Chicago	2	HMD8V90-R05-H	120	235	0	3090.30	90	340	0	3018.05	-	-	-	-	87.37.17.81	41.53.6.88	898
Chicago	2	HMD8V120-R05-H	120	170	0	5623.41	120	340	0	5128.61	-	-	-	-	87.38.21.13	41.55.33.28	286
Chicago	2	HMD8V90-R05-H	90	180	0	4265.80	90	310	0	3388.44	-	-	-	-	87.38.18.00	41.58.50.00	488
Cincinnati	2	HMD8PV180-R05-H	180	170	0	8511.38	180	350	0	7585.78	-	-	-	-	84.30.51.00	39.06.24.00	308
Cleveland	2	HMD8V120-R05-H	120	70	0	7585.78	120	260	0	6606.83	-	-	-	-	81.41.34.37	41.29.58.50	656
Columbus	1	HMD8V360-R05-H	Omni	-	-	5370.32	-	-	-	-	-	-	-	-	82.59.46.00	39.57.47.00	442
Dallas	2	HMD8V120-R05-H	120	80	0	8511.38	120	260	0	8511.38	-	-	-	-	86.47.52.23	32.47.8.95	498
Dallas	1	HMD8PV180-R05-H	180	240	0	10000.00	-	-	-	-	-	-	-	-	87.18.46.00	32.45.11.00	525
Dayton	1	HMD8V120-R05-H	120	115	0	5888.44	-	-	-	-	-	-	-	-	84.11.46.00	39.45.39.00	240
Denver/Boulder	2	HMD8PV180-R05-H	180	150	0	6309.57	180	330	0	7585.78	-	-	-	-	104.59.22.06	39.44.52.04	598
Detroit	1	HMD8V120-R05-H	120	330	0	16218.10	-	-	-	-	-	-	-	-	83.02.61.00	42.16.50.00	648
Detroit	2	HMD8V45-R05-H	45	90	0	18952.62	45	315	0	18952.62	-	-	-	-	83.14.35.42	42.28.28.15	389
Fresno	1	HMD8V90-R05-H	90	120	0	22387.21	-	-	-	-	-	-	-	-	119.62.56.90	36.48.59.50	180
Greensboro	1	HMD8V90-R05-H	90	240	0	14125.38	-	-	-	-	-	-	-	-	79.45.38.10	36.05.10.30	504
Hartford	1	HMD8V90-R05-H	90	140	0	22387.21	-	-	-	-	-	-	-	-	76.56.45.00	40.18.07.00	178
Hartford	1	HMD8V360-R05-H	Omni	-	-	6309.57	-	-	-	-	-	-	-	-	72.40.32.00	41.46.06.00	383
Houston	2	HMD8V90-R05-H	90	175	0	8772.37	90	285	0	8772.37	-	-	-	-	95.21.50.00	29.45.37.00	1060
Indianapolis	1	HMD8V360-R05-H	Omni	-	-	8708.64	-	-	-	-	-	-	-	-	86.09.20.00	39.46.13.00	532
Jacksonville	1	HMD8PV180-R05-H	180	345	0	6918.31	-	-	-	-	-	-	-	-	81.39.24.00	30.18.08.00	436
Kansas City	2	HMD8V90-R05-H	90	115	0	12302.69	90	205	0	11481.54	-	-	-	-	84.34.57.00	39.06.12.00	558
Knoxville	1	HMD8V90-R05-H	90	90	0	22387.21	-	-	-	-	-	-	-	-	84.01.22.60	35.57.46.20	265
Las Vegas	2	HMD8PV180-R05-H	180	20	0	4468.84	180	200	0	4670.88	-	-	-	-	115.08.31.00	36.10.10.10	461
Las Vegas	1	HMD8V120-R05-H	120	105	0	7943.28	-	-	-	-	-	-	-	-	115.10.00.00	36.07.57.00	401
Little Rock	1	HMD8V360-R05-H	Omni	-	-	5623.41	-	-	-	-	-	-	-	-	92.16.32.46	34.44.37.67	586
Los Angeles	3	HMD8V120-R05-H	120	0	3	3716.35	120	120	3	3716.35	120	240	3	3716.35	118.16.22.00	34.02.58.00	866
Los Angeles	2	HMD8V90-R05-H	90	60	0	7943.28	90	215	0	7943.28	-	-	-	-	118.27.35.00	34.03.03.00	273
Los Angeles	2	HMD8PV180-R05-H	180	110	0	5011.87	180	280	0	5011.87	-	-	-	-	118.23.55.00	34.03.20.00	158
Los Angeles	2	HMD8PV180-R05-H	180	45	0	4265.80	180	225	0	4877.35	-	-	-	-	118.21.04.55	34.03.44.18	372
Los Angeles	2	HMD8PV180-R05-H	180	90	0	4365.16	180	270	0	5623.41	-	-	-	-	118.18.34.00	34.03.41.00	302
Los Angeles	1	HMD8V45-R05-H	45	110	0	18506.87	-	-	-	-	-	-	-	-	118.11.44.00	34.08.48.00	78
Los Angeles	1	HMD8V90-R05-H	90	10	0	10232.83	90	-	-	-	-	-	-	-	118.15.26.39	34.08.29.27	98
Los Angeles	2	HMD8V90-R05-H	90	135	0	7943.28	90	225	0	7943.28	-	-	-	-	118.11.09.00	33.46.03.00	146
Los Angeles	2	HMD8V90-R05-H	90	0	0	7943.28	90	180	0	7943.28	-	-	-	-	117.52.8.01	33.45.34.23	120
Los Angeles	2	HMD8PV180-R05-H	180	135	0	5011.87	180	315	0	5011.87	-	-	-	-	117.52.62.00	33.41.22.00	158
Los Angeles	2	HMD8V90-R05-H	90	30	0	8918.31	90	280	0	8918.31	-	-	-	-	118.22.03.00	34.07.34.00	50
Los Angeles	1	HMD8V120-R05-H	120	290	0	7079.46	-	-	-	-	-	-	-	-	118.27.55.86	38.15.13	218
Louisville	1	HMD8V360-R05-H	Omni	-	-	5623.41	-	-	-	-	-	-	-	-	85.45.28.00	38.15.20.00	560
Memphis	1	HMD8V360-R05-H	Omni	-	-	21379.63	-	-	-	-	-	-	-	-	90.2.59.80	35.8.39.70	358
Miami	2	HMD8V90-R05-H	90	0	0	12022.64	90	230	0	12882.50	-	-	-	-	80.11.31.00	25.46.19.00	586

Market	No Of Sectors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Down tilt	ERP (Watts)	Antenna Beamwidth	Orientation	Down tilt	ERP (Watts)	Antenna Beamwidth	Orientation	Down tilt	ERP (Watts)	Longitude (W)	Latitude (N)	
Alamogordo	1	HMD8V90-R05-H	90	0	0	16820.87	-	-	-	-	-	-	-	-	80-08-30.84	26-06-50.67	640
Alamogordo	1	HMD8V90-R05-H	180	310	0	15488.17	-	-	-	-	-	-	-	-	87-54-06.69	43-02-17.95	588
Alamogordo	2	HMD8V120-R05-H	120	90	0	5370.32	120	270	0	4468.84	-	-	-	-	83-16-16.00	44-58-36.00	775
Alamogordo	1	HMD8V90-R05-H	90	135	0	8912.51	-	-	-	-	-	-	-	-	93-05-43.00	44-56-52.00	600
Alamogordo	1	HMD8V180-R05-H	180	180	0	8912.51	-	-	-	-	-	-	-	-	121-51-24.00	36-36-26.00	135
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	6165.85	-	-	-	-	-	-	-	-	86-46-55.09	36-09-48.95	868
Alamogordo	1	HMD8V180-R05-H	180	250	0	10715.19	-	-	-	-	-	-	-	-	72-55-20.00	41-18-33.00	243
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	10351.42	-	-	-	-	-	-	-	-	80-04-16.00	29-57-00.00	678
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	8912.51	-	-	-	-	-	-	-	-	73-56-55.20	40-45-33.00	670
Alamogordo	2	HMD8V90-R05-H	90	140	0	12589.25	90	340	0	12589.25	-	-	-	-	73-57-01.70	40-46-30.00	560
Alamogordo	1	HMD8V180-R05-H	180	210	0	15848.93	-	-	-	-	-	-	-	-	74-00-40.32	40-42-29.88	524
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	8912.51	-	-	-	-	-	-	-	-	73-58-48.00	40-42-54.00	474
Alamogordo	2	HMD8V180-R05-H	180	30	0	6165.95	180	210	0	8608.93	-	-	-	-	73-54-19.50	40-51-57.50	170
Alamogordo	2	HMD8V180-R05-H	180	0	0	5754.40	180	180	0	5688.44	-	-	-	-	73-56-36.00	40-48-54.00	180
Alamogordo	2	HMD8V180-R05-H	180	110	0	6308.57	180	290	0	7943.28	-	-	-	-	73-56-22.53	40-51-18.12	210
Alamogordo	1	HMD8V180-R05-H	180	110	0	16218.10	-	-	-	-	-	-	-	-	74-00-03.00	40-47-25.00	438
Alamogordo	2	HMD8V180-R05-H	180	90	0	7943.28	180	270	0	7943.28	-	-	-	-	73-45-44.75	41-01-51.39	261
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	8912.51	-	-	-	-	-	-	-	-	74-10-11.00	40-44-07.00	334
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	6760.83	-	-	-	-	-	-	-	-	76-17-29.21	36-50-44.47	270
Alamogordo	1	HMD8V90-R05-H	90	190	0	22387.21	-	-	-	-	-	-	-	-	97-28-22.00	35-35-52.00	400
Alamogordo	2	HMD8V180-R05-H	180	0	0	2511.89	180	180	0	2630.27	-	-	-	-	81-22-44.32	28-32-37.45	312
Alamogordo	2	HMD8V120-R05-H	120	120	0	8317.64	120	280	0	8332.54	-	-	-	-	75-10-11.00	39-57-13.00	758
Alamogordo	2	HMD8V180-R05-H	180	0	0	5888.44	180	180	0	7565.78	-	-	-	-	112-04-23.66	33-28-37.70	298
Alamogordo	2	HMD8V120-R05-H	120	90	0	9332.54	120	270	0	10000.00	-	-	-	-	79-59-42.00	40-26-29.00	690
Alamogordo	2	HMD8V90-R05-H	90	0	0	3801.86	90	190	0	3715.35	-	-	-	-	122-40-33.74	45-30-47.16	464
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	8912.51	-	-	-	-	-	-	-	-	71-24-36.84	41-48-29.33	421
Alamogordo	1	HMD8V180-R05-H	180	0	0	10000.00	-	-	-	-	-	-	-	-	78-36-25.00	35-46-27.00	458
Alamogordo	2	HMD8V120-R05-H	120	65	0	6456.54	120	305	0	6370.32	-	-	-	-	77-26-06.00	37-32-11.84	359
Alamogordo	2	HMD8V90-R05-H	90	130	0	10471.29	90	220	0	11481.54	-	-	-	-	77-36-33.00	43-06-23.00	365
Alamogordo	1	HMD8V180-R05-H	180	5	0	15848.93	-	-	-	-	-	-	-	-	121-29-27.00	38-34-28.00	140
Alamogordo	1	HMD8V90-R05-H	90	290	0	8912.51	-	-	-	-	-	-	-	-	111-51-02.40	40-45-28.90	135
Alamogordo	1	HMD8V90-R05-H	90	110	0	10471.29	-	-	-	-	-	-	-	-	88-28-32.00	29-25-42.00	428
Alamogordo	2	HMD8V120-R05-H	120	60	0	6308.57	120	240	0	6308.57	-	-	-	-	117-09-43.28	32-42-57.70	450
Alamogordo	2	HMD8V45-R05-H;HMD8V120-R05-H	120	25	0	10000.00	45	130	0	19952.82	-	-	-	-	122-26-03.00	37-41-12.00	100
Alamogordo	1	HMD8V120-R05-H	120	90	0	15848.93	-	-	-	-	-	-	-	-	122-27-05.00	37-45-20.00	382
Alamogordo	1	HMD8V90-R05-H	90	270	0	2511.86	-	-	-	-	-	-	-	-	121-45-11.23	37-19-20.06	20
Alamogordo	1	HMD8V180-R05-H	180	180	0	8912.51	-	-	-	-	-	-	-	-	121-58-45.00	36-58-35.60	60
Alamogordo	1	HMD8V180-R05-H	180	180	0	8912.51	-	-	-	-	-	-	-	-	122-19-41.77	47-36-18.71	943
Alamogordo	2	HMD8V120-R05-H	120	180	0	9549.83	120	330	0	8708.64	-	-	-	-	72-35-33.50	42-06-08.50	445
Alamogordo	1	HMD8V90-R05-H	90	147.25	0	14725.38	-	-	-	-	-	-	-	-	90-11-28.00	38-37-48.00	482
Alamogordo	2	HMD8V90-R05-H	90	135	0	9549.83	90	225	0	10232.93	-	-	-	-	76-08-32.00	43-02-49.00	207
Alamogordo	2	HMD8V90-R05-H	90	160	0	6918.31	90	280	0	6025.60	-	-	-	-	82-27-33.00	27-58-48.00	576
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	10000.00	-	-	-	-	-	-	-	-	110-58-16.50	32-13-20.10	255
Alamogordo	1	HMD8V120-R05-H	120	135	0	11220.18	-	-	-	-	-	-	-	-	95-57-10.85	36-10-10.02	400
Alamogordo	1	HMD8V90-R05-H	90	240	0	15848.93	-	-	-	-	-	-	-	-	77-00-41.00	38-53-48.00	156
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	8918.31	-	-	-	-	-	-	-	-	77-04-35.08	38-53-43.00	180
Alamogordo	2	HMD8V120-R05-H	120	90	0	9549.83	120	260	0	8912.51	-	-	-	-	77-03-39.00	38-51-45.00	208
Alamogordo	1	HMD8V360-R05-H	Omni	-	-	4897.79	-	-	-	-	-	-	-	-	77-06-55.87	38-50-36.80	208
Alamogordo	3	HMD8V120-R05-H	120	90	0	8025.60	120	210	0	6165.85	120	330	0	5754.40	77-05-44.00	39-44-53.00	200
Alamogordo	1	HMD8V90-R05-H	90	225	0	14125.38	-	-	-	-	-	-	-	-	75-32-49.00	39-44-53.00	430
Alamogordo	1	HMD8V90-R05-H	90	30	0	14125.38	-	-	-	-	-	-	-	-	80-15-05.00	36-05-24.00	330

EXHIBIT B

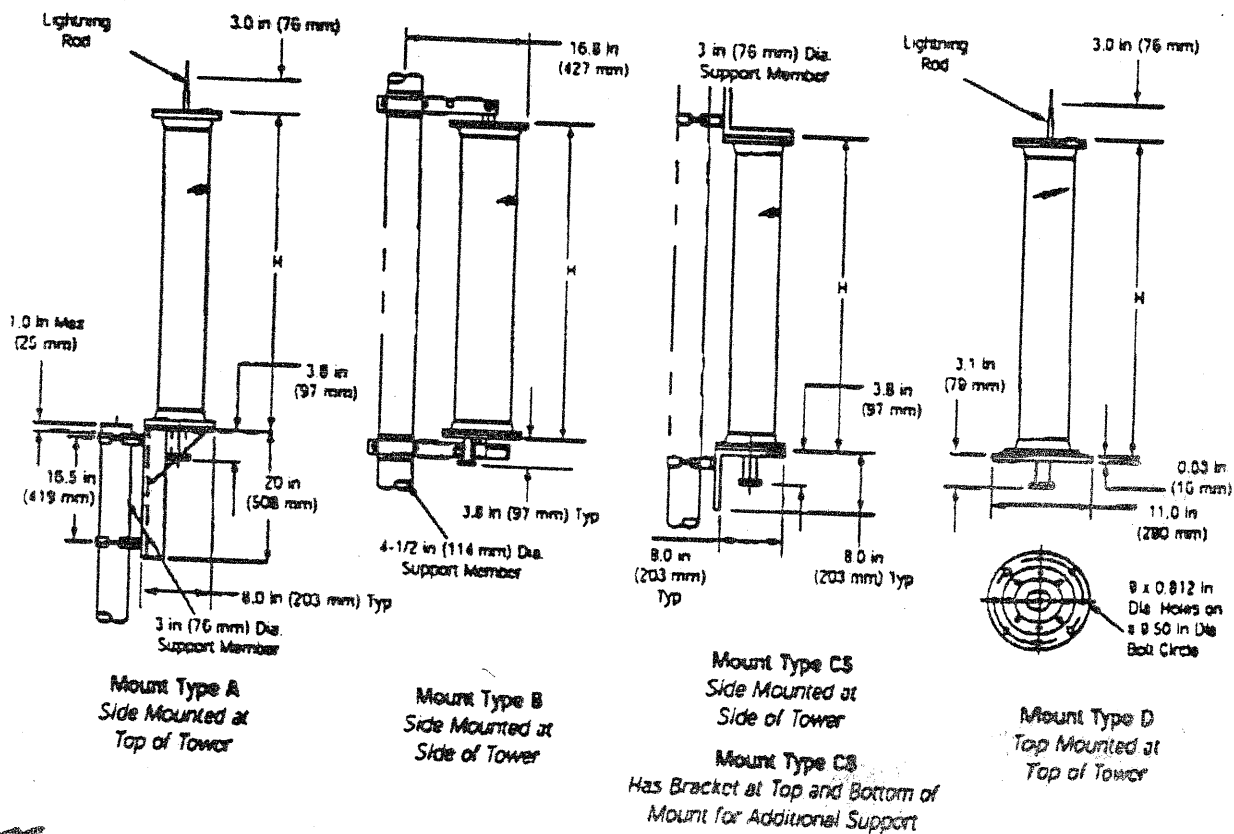
HMD Series Antennas for MMDS/ITFS and Wireless Cable Applications



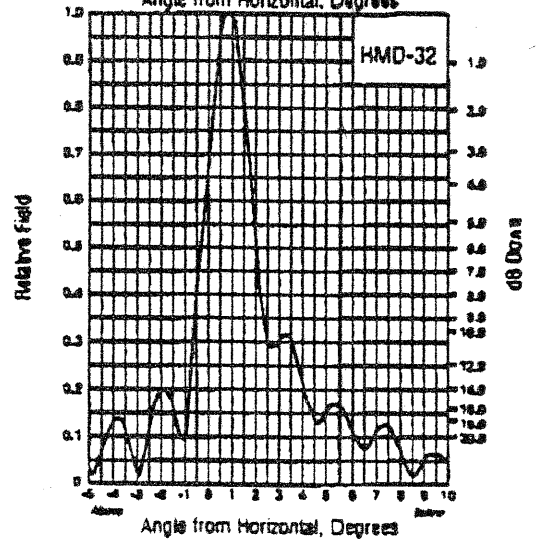
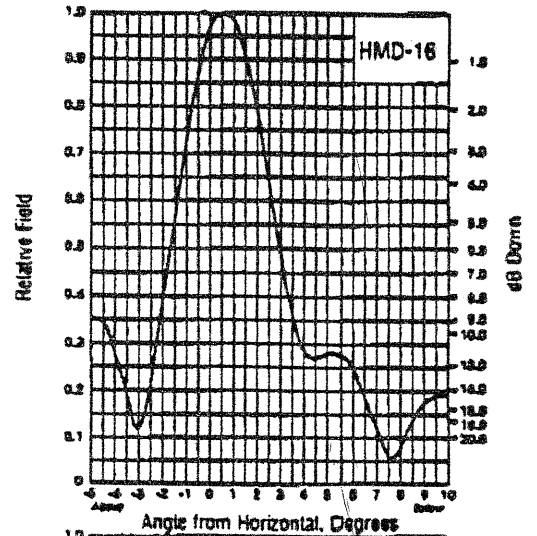
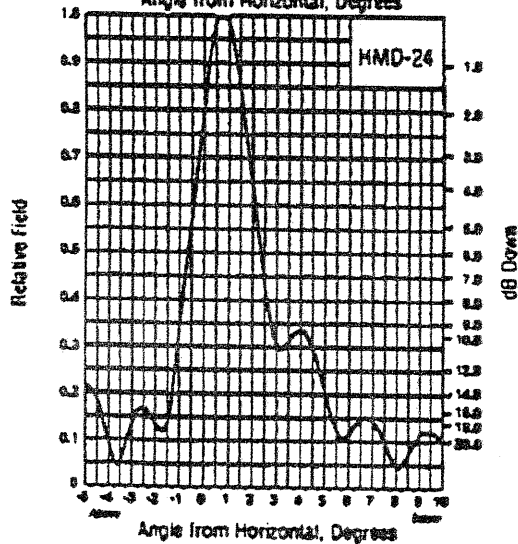
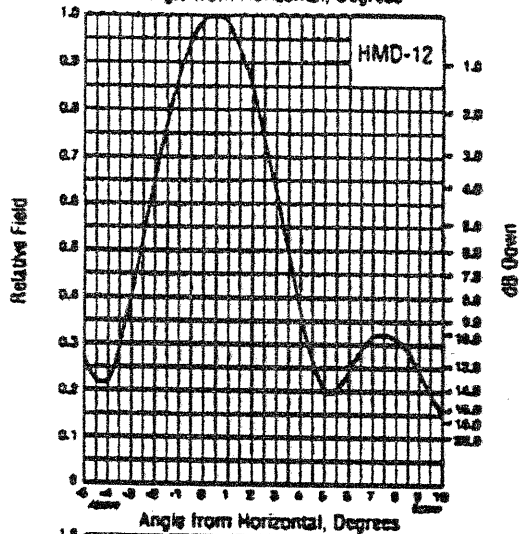
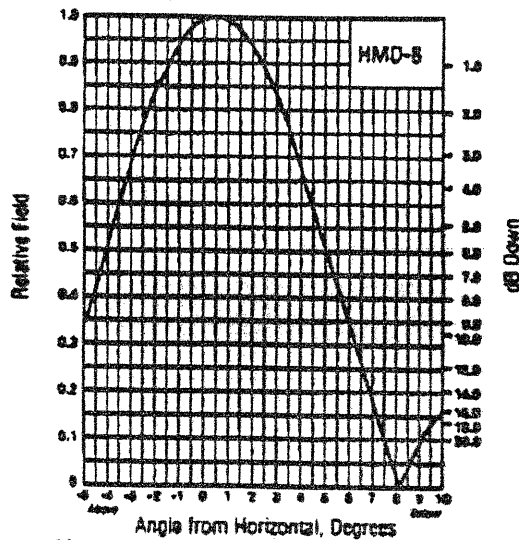
Features

- Pressurizable, radome enclosed for long, trouble-free life
- Excellent VSWR performance
 - 1.35:1 max for W-Band
 - 1.5:1 max for other bands
- Optimized beam tilt
 - 0.5 °Standard for 8, 12, and 16 bay
 - 0.75 °Standard for 24 and 32 bay
 - Others available on request
- High power handling - 800 watts typical
- Wide selection of frequency bands and patterns
- Horizontal or vertical polarization
- Suitable for analog or digital transmission
- Null fill for excellent coverage

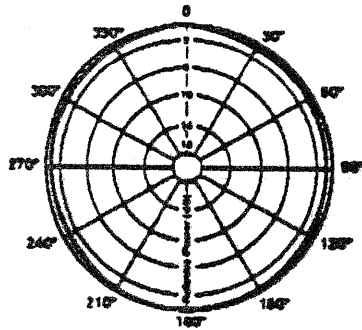
Standard Mounting Configurations



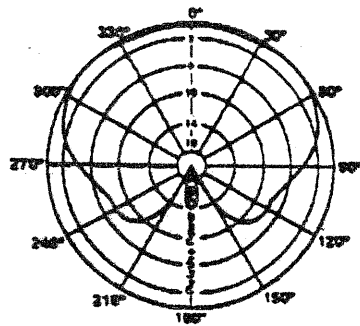
HMD Series Antennas Elevation Patterns



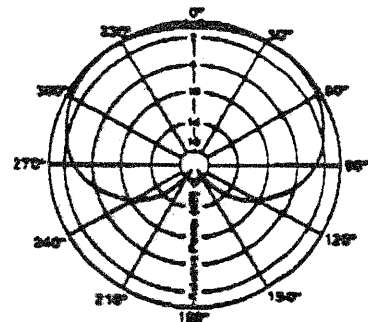
HMD Series Antennas Azimuth Patterns



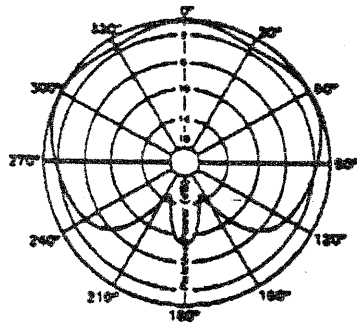
Omnidirectional



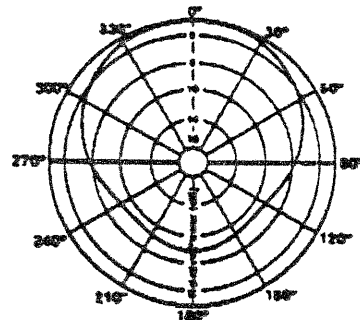
Horizontal Cardioid



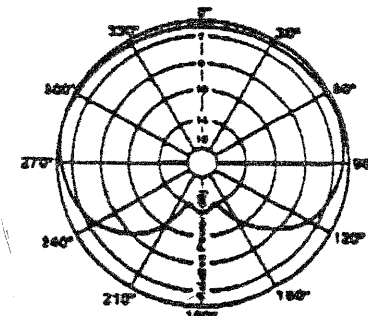
Vertical Cardioid



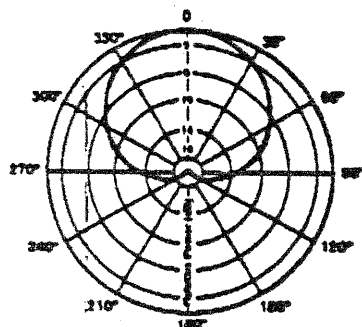
Wide Horizontal Cardioid



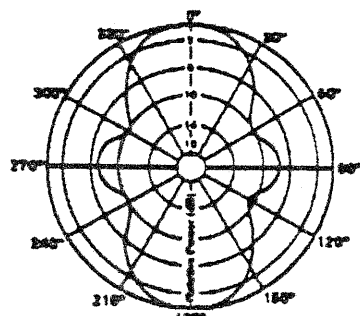
Narrow Horizontal Cardioid



Wide Vertical Cardioid



Narrow Vertical Cardioid



Horizontal Peanut

List for Andrew Antennas for Sirius Radio Deployment

Andrew Corporation Products Antennas	Product Description	Average			Null Fill (%)	E-Plane Beamwidth (-3 dB)	Total Length (in)	Weight (lbs.)	Radome Diam. (in)
		Power Gain (dBi)	Input Power (W)						
45 DEGREE ANTENNA									
HMD8V45-R05-H	45 degree Az. Pattern, 8 Bays.								
	Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 -2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 :1 Max. VSWR								
		18 dBi	1000 W (rms)	None	7.0 - 7.5 deg.	57"	50 lbs	8"	

60 DEGREE ANTENNA

60 degree Azimuth pattern, 8 Bays, Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 -2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 :1 Max. VSWR								
HMD8V60-R05-H		17.0 dBi	1000 W (rms)	None	7.0 - 7.5 deg.	57"	40 lbs	5"

90 DEGREE ANTENNA

90 degree Az. Pattern, 8 Bays, Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 -2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 :1 Max. VSWR								
HMD8V90-R05-H		16 dBi	1000 W (rms)	None	7.0 - 7.5 deg.	57"	40 lbs	5"

List for Andrew Antennas for Sirius Radio Deployment

120 DEGREE ANTENNA

HMD8V120-R05	120 degree Azimuth pattern, 8 Bays, Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 - 2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 : 1 Max.				
	VSWR	15.0 dBi	1000 W (rms)	None	57"
				7.0 - 7.5 deg	40 lbs
					5"

160 DEGREE ANTENNA

HMD8V160-R05-H	160 degree Azimuth pattern, 8 Bays, Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 - 2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 : 1 Max.				
	VSWR	15.0 dBi	1000 W (rms)	None	57"
				7.0 - 7.5 deg	40 lbs
					5"

180 DEGREE ANTENNA

HMD8PV180-R05-H	180 degree Azimuth pattern, 8 Bays, Vertical Polarization, Standard Beamtilt (0.5 deg.), 2300 - 2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.38 : 1 Max.				
	VSWR	14.0 dBi	1000 W (rms)	None	57"
				7.0 - 7.5 deg	40 lbs
					5"

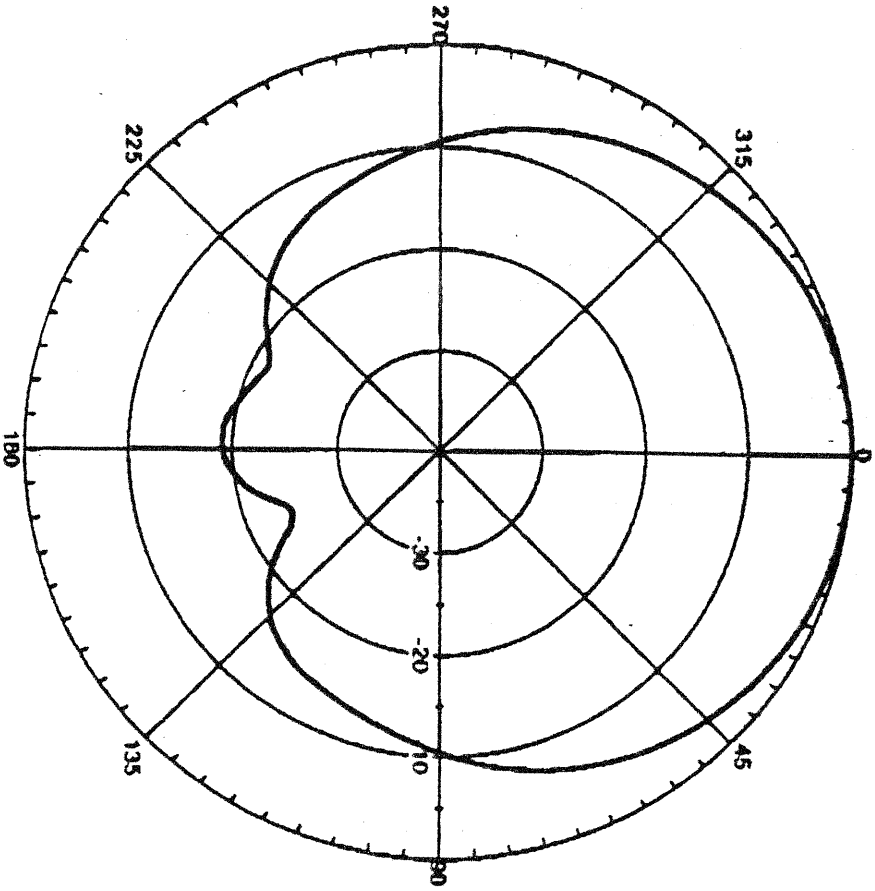
Note: All Directional (Sector) Antennas come with Type 'C' Mount

OMNI ANTENNAS

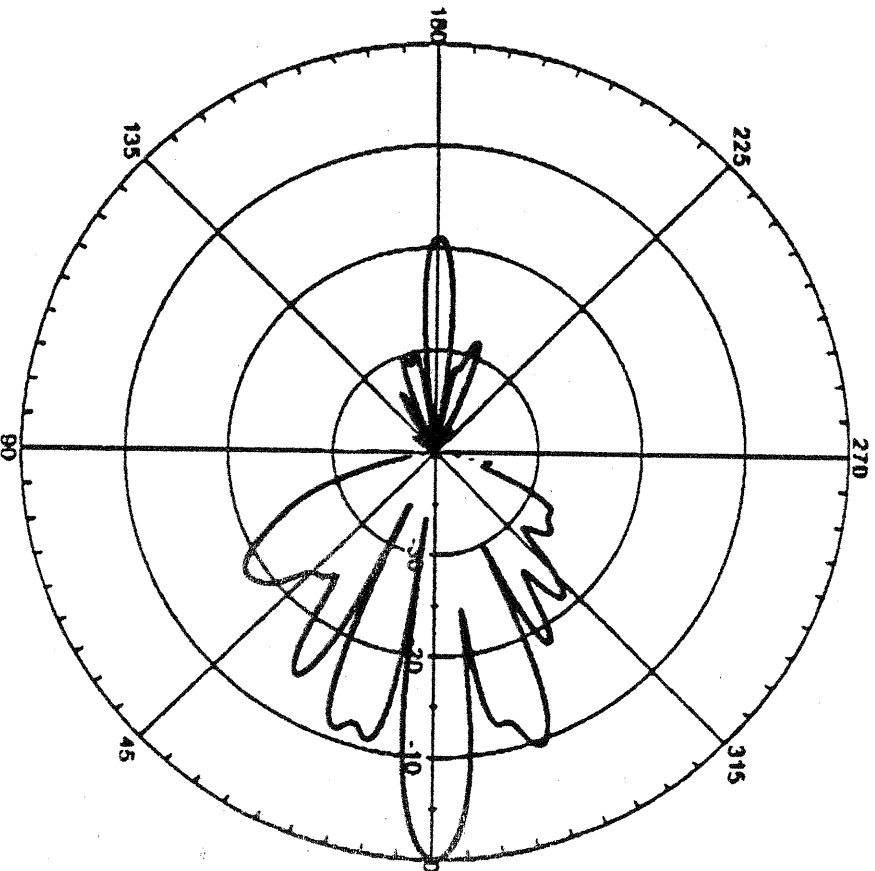
HMD8V360-R05-H	Omni pattern, 8 Bays, Standard Beamtilt (0.5 deg.), Vertical Polarization, 2300 - 2500 MHz Freq. Band, 50 Ohm, 7/8" EIA Flange, 1.5 : 1 Max. VSWR				
		11.5 dBi	1,000 W (rms)	None	44"
				7.0 - 7.5 deg	50 lbs
					5"

Note: All Omni antennas come with Type 'A' Mount (for Top Installation)

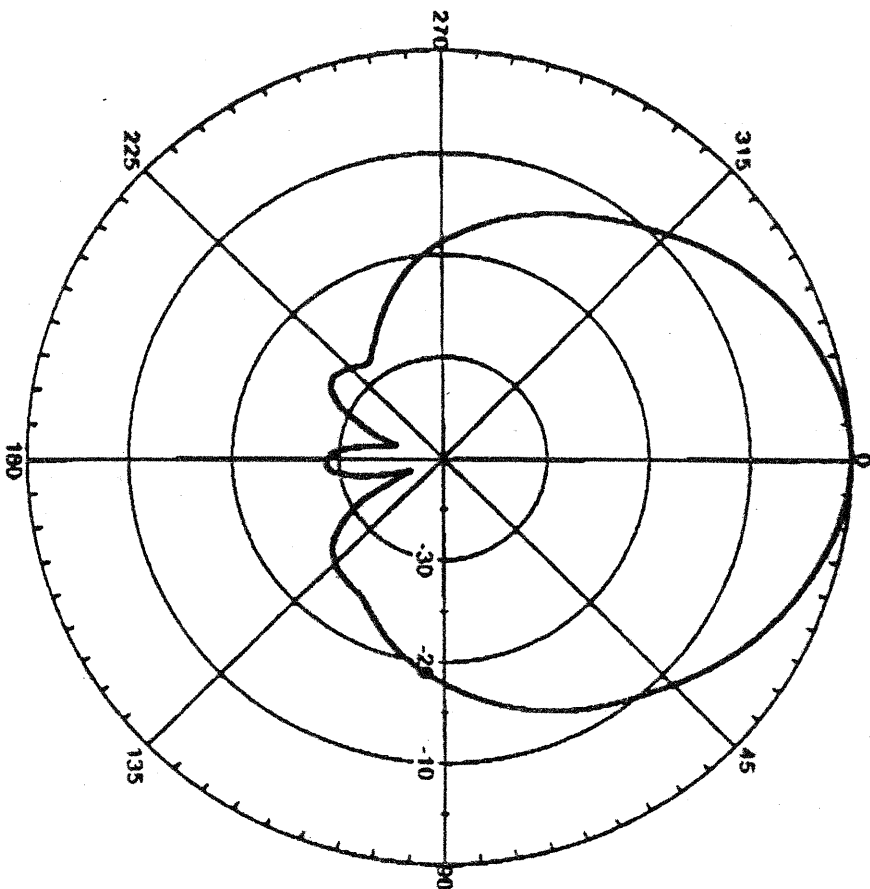
Bore Sight Gain: 10.62
Front to Back : 19.05 dB
H. Beamwidth : 88.75°



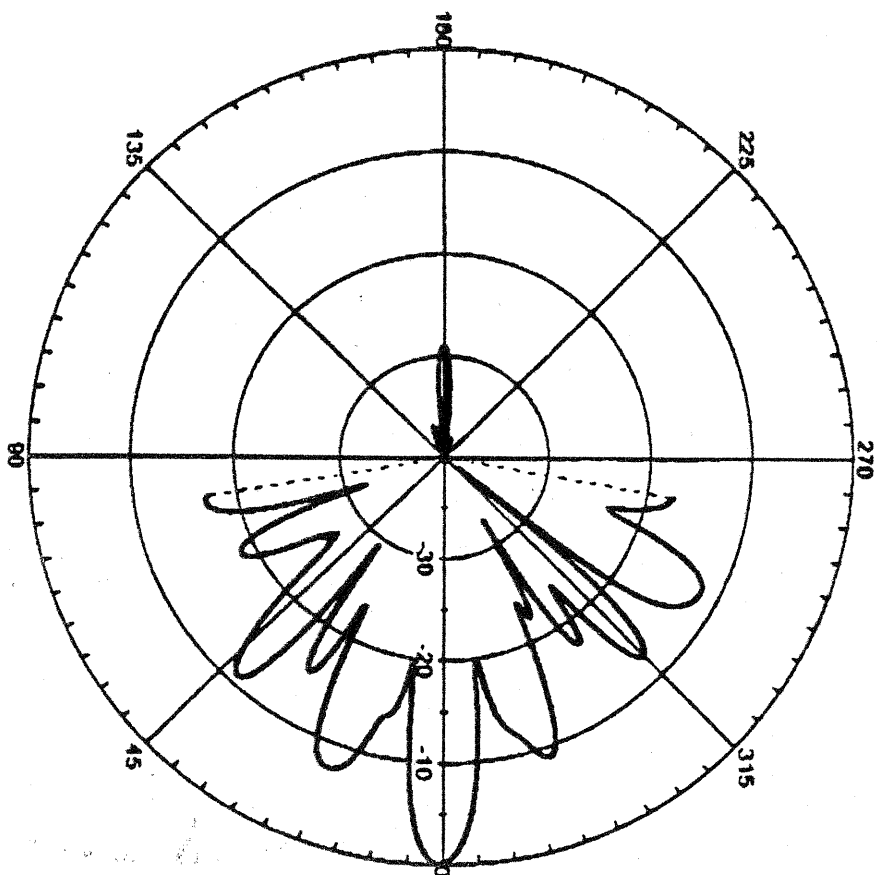
V. Beamwidth : 7.42°



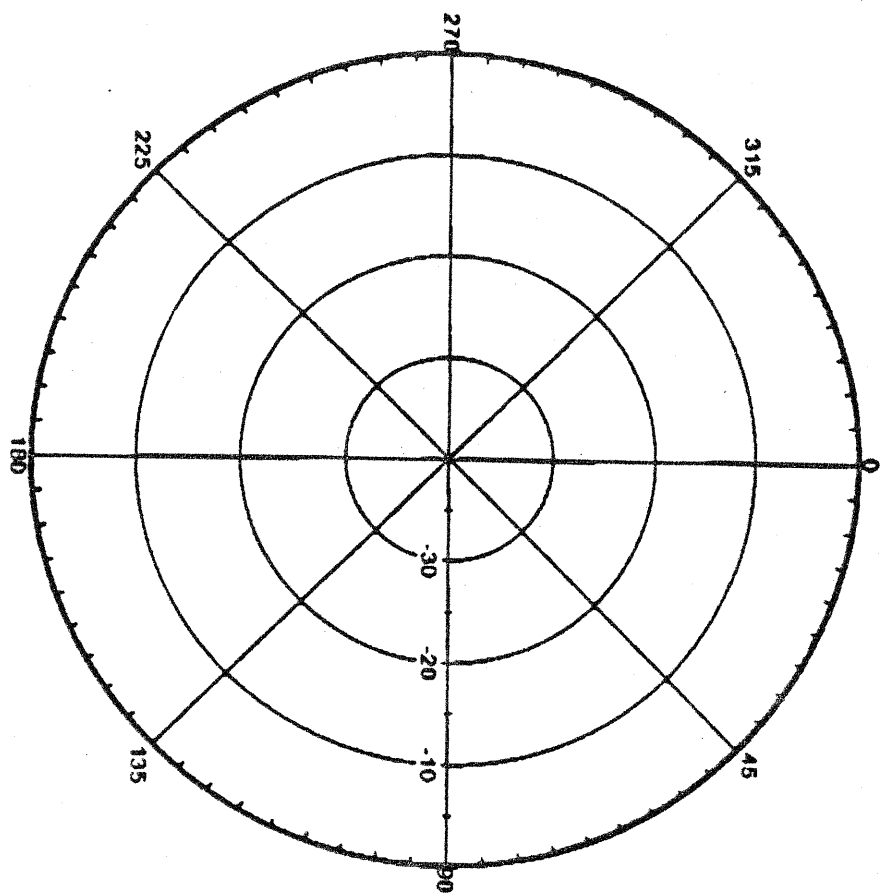
Boresight Gain: 0.00
 Front to Back : 29.07 dB
 H. Beamwidth : 44.76°



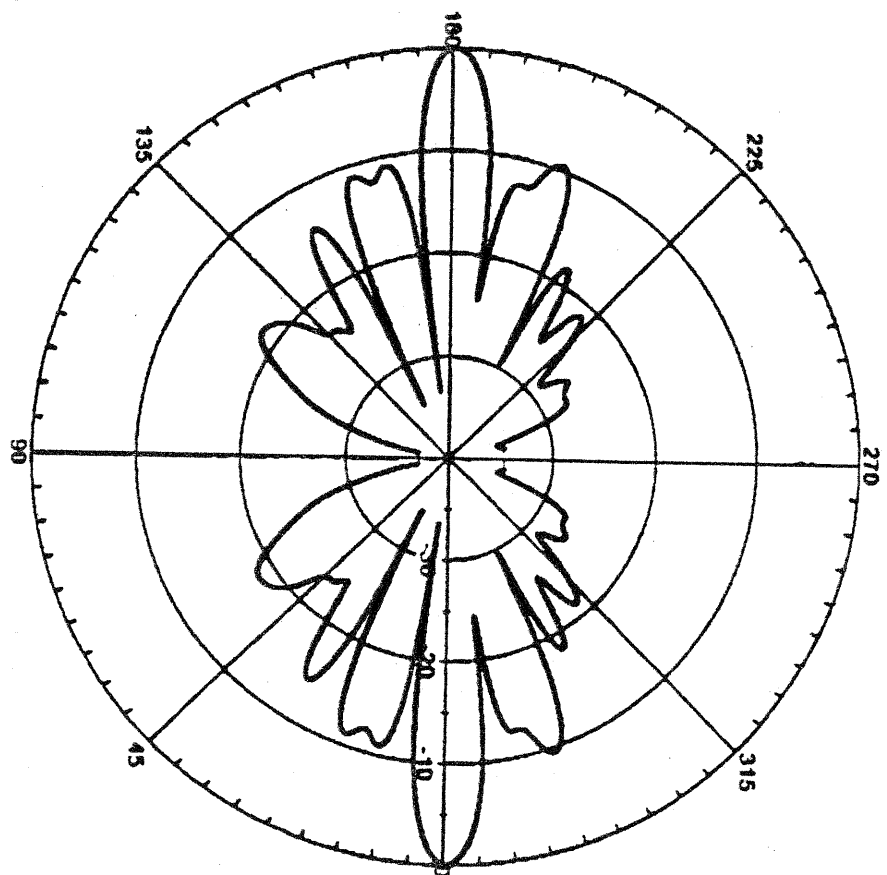
V. Beamwidth : 7.48°



Bore Sight Gain: 0.00
Front to Back: 0.02 dB
H. Beamwidth: 360.00°

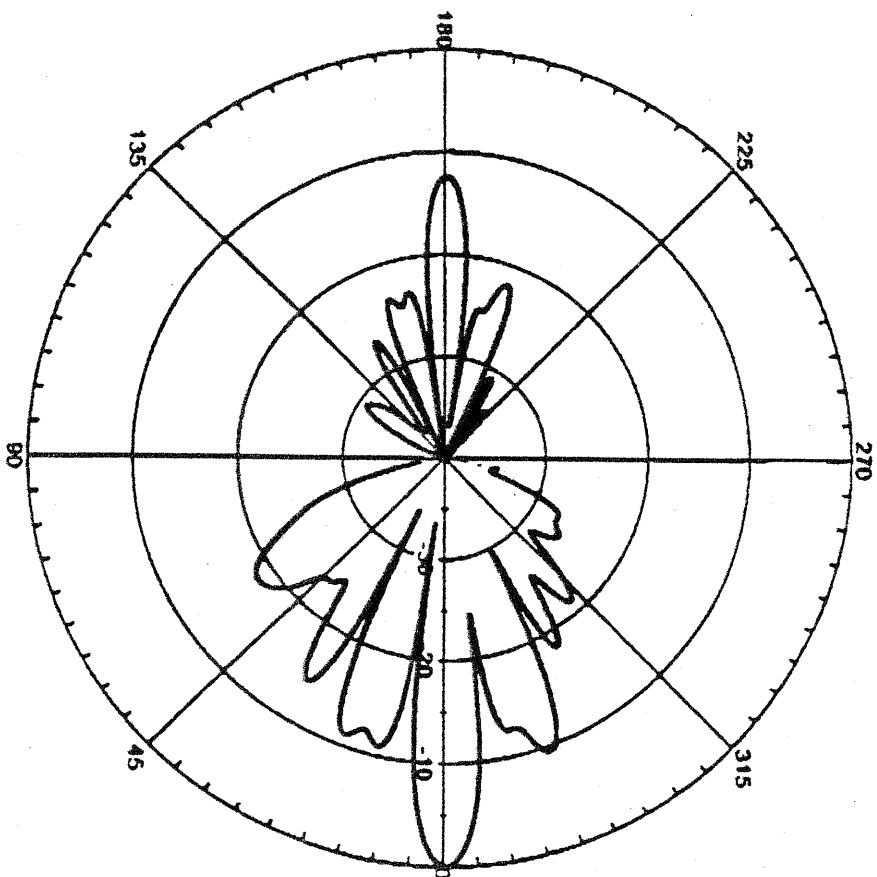
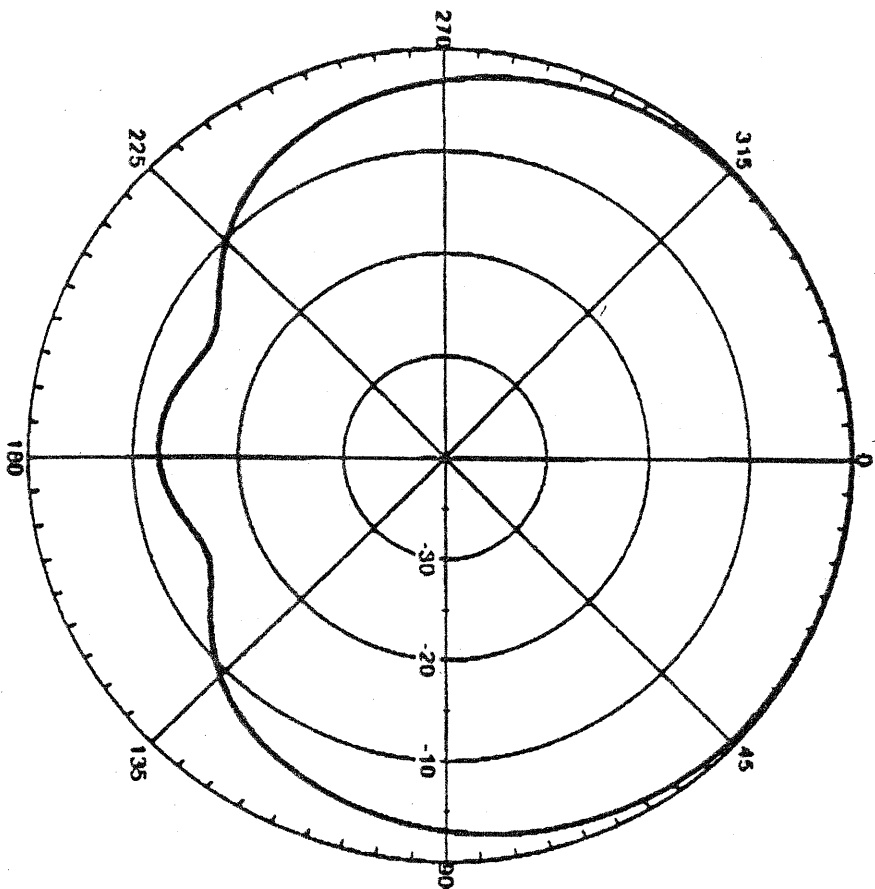


V. Beamwidth: 7.42°

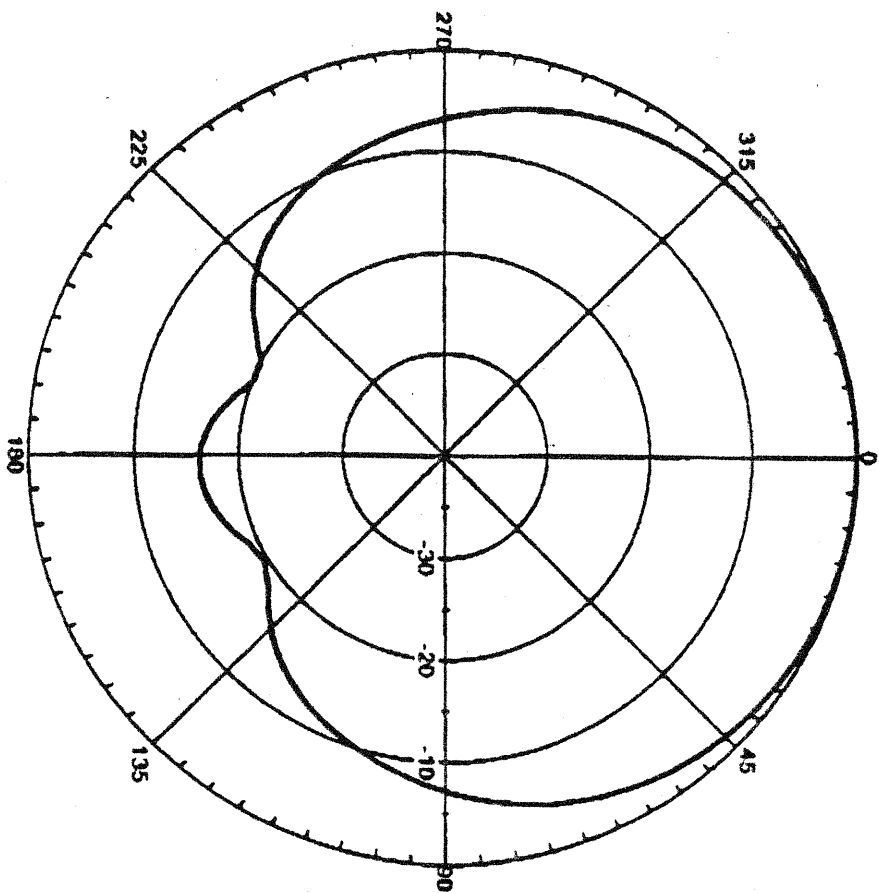


Boresight Gain: 0.00
Front to Back : 12.48 dB
H. Beamwidth : 178.25°

V. Beamwidth : 7.42°



Boresight Gain: 10.62
 Front to Back : 18.31 dB
 H. Beamwidth : 122.45°



V. Beamwidth : 7.42°

